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MTMSVECTOR  
Table of contents

- Entry vector for MTHRTL.EXE

1 3

16-SEP-1984 01:00:45 VAX/VMS Macro V04-00

Page 0

(2) 47  
(3) 106

DECLARATIONS  
MTHRTL Vector

MT  
1-

```
0000 1 .TITLE MTH$VECTOR - Entry vector for MTHRTL.EXE
0000 2 .IDENT /1-002/ ; File: MTHVECTOR.MAR Edit: LEB1002
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: Run-Time Library - Mathematics procedures
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 This module contains the entry vector definitions for the
0000 35 VAX-11 Run-Time Library shareable image MTHRTL.EXE
0000 36
0000 37 ENVIRONMENT: User mode, AST Reentrant
0000 38
0000 39 AUTHOR: Steven B. Lionel, CREATION DATE: 29-October-1982
0000 40
0000 41 MODIFIED BY:
0000 42
0000 43 1-001 - Original, SBL 29-October-1982
0000 44 1-002 - Add remaining non-shared MTH$ entry points. LEB 20-May-1983
0000 45 --
```



```
0000 47      .SBTTL  DECLARATIONS
0000 48  ::
0000 49  :: LIBRARY MACRO CALLS:
0000 50  ::
0000 51  ::     NONE
0000 52  ::
0000 53  :: EXTERNAL DECLARATIONS:
0000 54  ::
0000 55  ::     .DSABL  GBL                ; Force all external symbols to be declared
0000 56  ::
0000 57  :: MACROS:
0000 58  ::
0000 59  ::
0000 60  ::+
0000 61  :: Macro to define an entry vector for a CALL entry point
0000 62  ::-
0000 63  ::
0000 64  ::     .MACRO  VCALL      NAME
0000 65  ::     .EXTRN      NAME
0000 66  ::     .TRANSFER      NAME
0000 67  ::     .MASK        NAME
0000 68  ::     JMP          NAME+2
0000 69  ::     .ENDM
0000 70  ::
0000 71  ::+
0000 72  :: Macro to define an entry vector for a JSB entry point
0000 73  ::-
0000 74  ::
0000 75  ::     .MACRO  VJSB      NAME
0000 76  ::     .EXTRN      NAME
0000 77  ::     .TRANSFER      NAME
0000 78  ::     JMP          NAME
0000 79  ::     .BLKB        2
0000 80  ::     .ENDM
0000 81  ::
0000 82  ::+
0000 83  :: Macro to define an alias for the next vectored entry point
0000 84  ::-
0000 85  ::
0000 86  ::     .MACRO  ALIAS      NAME
0000 87  ::     .TRANSFER      NAME
0000 88  ::     .ENDM
0000 89  ::
0000 90  ::
0000 91  ::
0000 92  :: EQUATED SYMBOLS:
0000 93  ::
0000 94  ::     NONE
0000 95  ::
0000 96  :: OWN STORAGE:
0000 97  ::
0000 98  ::     NONE
0000 99  ::
0000 100  :: PSECT DECLARATIONS:
0000 101  ::
0000 102  ::     .PSECT $MTH$VECTOR PIC, USR, CON, REL, LCL, SHR, -
0000 103  ::     EXE, RD, NOWRT, LONG
```

MTHSVECTOR  
1-002

- Entry vector for MTHRTL.EXE  
DECLARATIONS

L 3

16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 Page 3  
6-SEP-1984 11:27:25 [MTHRTL.SRC]MTHVECTOR.MAR;1 (2)

0000 104

MT  
1-

```
0000 106      .SBTTL  MTHRTL Vector
0000 107
0000 108 :+
0000 109 : Define vectored entry points for the Mathematics Procedures
0000 110 : by module in alphabetical order.
0000 111 :
0000 112 : Any additions to this file should be reflected in
0000 113 : COMS:MTHRTLVEC.DAT. All new entry points must be appended to the end
0000 114 : of the list. NEVER change existing entries unless you are sure that
0000 115 : what you do won't break existing programs.
0000 116 :-
0000 117
0000 118
0000 119 : Module MTH$ACOS
0000 120
0000 121      VCALL  MTH$ACOS
0008 122      VCALL  MTH$ACOSD
0010 123      VJSB  MTH$ACOSD_R4
0018 124      VJSB  MTH$ACOS_R4
0020 125      VJSB  MTH$ACOS_R5
0028 126
0028 127 : Module MTH$ASIN
0028 128
0028 129      VCALL  MTH$ASIN
0030 130      VJSB  MTH$ASIN_R2
0038 131
0038 132 : Module MTH$ALOG
0038 133
0038 134      VCALL  MTH$ALOG
0040 135      VCALL  MTH$ALOG10
0048 136      VJSB  MTH$ALOG10_R5
0050 137      VCALL  MTH$ALOG2
0058 138      VJSB  MTH$ALOG_R5
0060 139
0060 140 : Module MTH$AMOD
0060 141
0060 142      VCALL  MTH$AMOD
0068 143
0068 144 : Module MTH$ANINT
0068 145
0068 146      VCALL  MTH$ANINT
0070 147
0070 148 : Module MTH$ASIN
0070 149
0070 150      VCALL  MTH$ASIN
0078 151      VCALL  MTH$ASIND
0080 152      VJSB  MTH$ASIND_R4
0088 153      VJSB  MTH$ASIN_R4
0090 154      VJSB  MTH$ASIN_R5
0098 155
0098 156 : Module MTH$ATAN
0098 157
0098 158      VCALL  MTH$ATAN
00A0 159      VCALL  MTH$ATAN2
00A8 160      VCALL  MTH$ATAND
00B0 161      VCALL  MTH$ATAND2
00B8 162      VJSB  MTH$ATAND_R4
```

00C0	163	VJSB	MTH\$ATAN_R4
00C8	164		
00C8	165	; Module MTH\$ATANH	
00C8	166		
00C8	167	VCALL	MTH\$ATANH
00D0	168		
00D0	169	; Module MTH\$CABS	
00D0	170		
00D0	171	VCALL	MTH\$CABS
00D8	172		
00D8	173	; Module MTH\$CDABS	
00D8	174		
00D8	175	VCALL	MTH\$CDABS
00E0	176		
00E0	177	; Module MTH\$CDEXP	
00E0	178		
00E0	179	VCALL	MTH\$CDEXP
00E8	180		
00E8	181	; Module MTH\$CDLOG	
00E8	182		
00E8	183	VCALL	MTH\$CDLOG
00F0	184		
00F0	185	; Module MTH\$CDSINCOS	
00F0	186		
00F0	187	VCALL	MTH\$CDCOS
00F8	188	VCALL	MTH\$CDSIN
0100	189		
0100	190	; Module MTH\$CDSQRT	
0100	191		
0100	192	VCALL	MTH\$CDSQRT
0108	193		
0108	194	; Module MTH\$CEXP	
0108	195		
0108	196	VCALL	MTH\$CEXP
0110	197		
0110	198	; Module MTH\$CGABS	
0110	199		
0110	200	VCALL	MTH\$CGABS
0118	201		
0118	202	; Module MTH\$CGEXP	
0118	203		
0118	204	VCALL	MTH\$CGEXP
0120	205		
0120	206	; Module MTH\$CGLOG	
0120	207		
0120	208	VCALL	MTH\$CGLOG
0128	209		
0128	210	; Module MTH\$CGSINCOS	
0128	211		
0128	212	VCALL	MTH\$CGCOS
0130	213	VCALL	MTH\$CGSIN
0138	214		
0138	215	; Module MTH\$CGSQRT	
0138	216		
0138	217	VCALL	MTH\$CGSQRT
0140	218		
0140	219	; Module MTH\$CLOG	



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```
0300 334      VJSB      MTH$EXP_R4
0308 335
0308 336 ; Module MTH$GACOS
0308 337
0308 338      VCALL      MTH$GACOS
0310 339      VCALL      MTH$GACOSD
0318 340      VJSB      MTH$GACOSD_R7
0320 341      VJSB      MTH$GACOS_R7
0328 342      VJSB      MTH$GACOS_R9
0330 343
0330 344 ; Module MTH$GASIN
0330 345
0330 346      VCALL      MTH$GASIN
0338 347      VCALL      MTH$GASIND
0340 348      VJSB      MTH$GASIND_R7
0348 349      VJSB      MTH$GASIN_R7
0350 350      VJSB      MTH$GASIN_R9
0358 351
0358 352 ; Module MTH$GATAN
0358 353
0358 354      VCALL      MTH$GATAN
0360 355      VCALL      MTH$GATAN2
0368 356      VCALL      MTH$GATAND
0370 357      VCALL      MTH$GATAND2
0378 358      VJSB      MTH$GATAND_R7
0380 359      VJSB      MTH$GATAN_R7
0388 360
0388 361 ; Module MTH$GATANH
0388 362
0388 363      VCALL      MTH$GATANH
0390 364
0390 365 ; Module MTH$GCOSH
0390 366
0390 367      VCALL      MTH$GCOSH
0398 368
0398 369 ; Module MTH$GEXP
0398 370
0398 371      VCALL      MTH$GEXP
03A0 372      VJSB      MTH$GEXP_R6
03A8 373      VJSB      MTH$GEXP_R7
03B0 374
03B0 375 ; Module MTH$GINT
03B0 376
03B0 377      VCALL      MTH$GINT
03B8 378      VJSB      MTH$GINT_R4
03C0 379
03C0 380 ; Module MTH$GLOG
03C0 381
03C0 382      VCALL      MTH$GLOG
03C8 383      VCALL      MTH$GLOG10
03D0 384      VJSB      MTH$GLOG10_R8
03D8 385      VCALL      MTH$GLOG2
03E0 386      VJSB      MTH$GLOG_R8
03E8 387
03E8 388 ; Module MTH$GMOD
03E8 389
03E8 390      VCALL      MTH$GMOD
```

```
03F0 391
03F0 392 ; Module MTH$GNINT
03F0 393
03F0 394      VCALL  MTH$GNINT
03F8 395
03F8 396 ; Module MTH$GPROD
03F8 397
03F8 398      VCALL  MTH$GPROD
0400 399
0400 400 ; Module MTH$GSINCOS
0400 401
0400 402      VCALL  MTH$GCOS
0408 403      VCALL  MTH$GCOSD
0410 404      VJSB   MTH$GCOSD_R7
0418 405      VJSB   MTH$GCOS_R7
0420 406      VCALL  MTH$GSIN
0428 407      VCALL  MTH$GSINCOS
0430 408      VCALL  MTH$GSINCOSD
0438 409      VJSB   MTH$GSINCOSD_R7
0440 410      VJSB   MTH$GSINCOS_R7
0448 411      VCALL  MTH$GSIND
0450 412      VJSB   MTH$GSIND_R7
0458 413      VJSB   MTH$GSIN_R7
0460 414
0460 415 ; Module MTH$GSINH
0460 416
0460 417      VCALL  MTH$GSINH
0468 418
0468 419 ; Module MTH$GSQRT
0468 420
0468 421      VCALL  MTH$GSQRT
0470 422      VJSB   MTH$GSQRT_R5
0478 423
0478 424 ; Module MTH$GTAN
0478 425
0478 426      VCALL  MTH$GTAN
0480 427      VCALL  MTH$GTAND
0488 428      VJSB   MTH$GTAND_R7
0490 429      VJSB   MTH$GTAN_R7
0498 430
0498 431 ; Module MTH$GTANH
0498 432
0498 433      VCALL  MTH$GTANH
04A0 434
04A0 435 ; Module MTH$HACOS
04A0 436
04A0 437      VCALL  MTH$HACOS
04A8 438      VCALL  MTH$HACOSD
04B0 439      VJSB   MTH$HACOSD_R8
04B8 440      VJSB   MTH$HACOS_R8
04C0 441
04C0 442 ; Module MTH$HASIN
04C0 443
04C0 444      VCALL  MTH$HASIN
04C8 445      VCALL  MTH$HASIND
04D0 446      VJSB   MTH$HASIND_R8
04D8 447      VJSB   MTH$HASIN_R8
```



```
04E0 448
04E0 449 : Module MTH$HATAN
04E0 450
04E0 451      VCALL MTH$HATAN
04E8 452      VCALL MTH$HATAN2
04F0 453      VCALL MTH$HATAN0
04F8 454      VCALL MTH$HATAN02
0500 455      VJSB MTH$HATAN0_R8
0508 456      VJSB MTH$HATAN_R8
0510 457
0510 458 : Module MTH$HATANH
0510 459
0510 460      VCALL MTH$HATANH
0518 461
0518 462 : Module MTH$HCOSH
0518 463
0518 464      VCALL MTH$HCOSH
0520 465
0520 466 : Module MTH$HEXP
0520 467
0520 468      VCALL MTH$HEXP
0528 469      VJSB MTH$HEXP_R6
0530 470
0530 471 : Module MTH$HINT
0530 472
0530 473      VCALL MTH$HINT
0538 474      VJSB MTH$HINT_R8
0540 475
0540 476 : Module MTH$HLOG
0540 477
0540 478      VCALL MTH$HLOG
0548 479      VCALL MTH$HLOG10
0550 480      VJSB MTH$HLOG10_R8
0558 481      VCALL MTH$HLOG2
0560 482      VJSB MTH$HLOG_R8
0568 483
0568 484 : Module MTH$HMOD
0568 485
0568 486      VCALL MTH$HMOD
0570 487
0570 488 : Module MTH$HNINT
0570 489
0570 490      VCALL MTH$HNINT
0578 491
0578 492 : Module MTH$HSINCOS
0578 493
0578 494      VCALL MTH$HCOS
0580 495      VCALL MTH$HCOSD
0588 496      VJSB MTH$HCOSD_R5
0590 497      VJSB MTH$HCOS_R5
0598 498      VCALL MTH$HSIN
05A0 499      VCALL MTH$HSINCOS
05A8 500      VCALL MTH$HSINCOSD
05B0 501      VJSB MTH$HSINCOSD_R7
05B8 502      VJSB MTH$HSINCOS_R7
05C0 503      VCALL MTH$HSIND
05C8 504      VJSB MTH$HSIND_R5
```

```
05D0 505          VJSB  MTH$HSIN_R5
05D8 506
05D8 507 ; Module MTH$HSINH
05D8 508
05D8 509          VCALL  MTH$HSINH
05E0 510
05E0 511 ; Module MTH$HSQRT
05E0 512
05E0 513          VCALL  MTH$HSQRT
05E8 514          VJSB  MTH$HSQRT_R8
05F0 515
05F0 516 ; Module MTH$HTAN
05F0 517
05F0 518          VCALL  MTH$HTAN
05F8 519          VCALL  MTH$HTAND
0600 520          VJSB  MTH$HTAND_R5
0608 521          VJSB  MTH$HTAND_R7
0610 522          VJSB  MTH$HTAN_R5
0618 523          VJSB  MTH$HTAN_R7
0620 524
0620 525 ; Module MTH$HTANH
0620 526
0620 527          VCALL  MTH$HTANH
0628 528
0628 529 ; Module MTH$RANDOM
0628 530
0628 531          VCALL  MTH$RANDOM
0630 532
0630 533 ; Module MTH$SIGN
0630 534
0630 535          VCALL  MTH$SIGN
0638 536
0638 537 ; Module MTH$SINCOS
0638 538
0638 539          VCALL  MTH$SCOS
0640 540          VCALL  MTH$SCOSD
0648 541          VJSB  MTH$SCOSD_R4
0650 542          VJSB  MTH$SCOS_R4
0658 543          VCALL  MTH$SSIN
0660 544          VCALL  MTH$SINCOS
0668 545          VCALL  MTH$SINCOSD
0670 546          VJSB  MTH$SINCOSD_R5
0678 547          VJSB  MTH$SINCOS_R5
0680 548          VCALL  MTH$SSIND
0688 549          VJSB  MTH$SSIND_R4
0690 550          VJSB  MTH$SSIN_R4
0698 551
0698 552 ; Module MTH$SINH
0698 553
0698 554          VCALL  MTH$SINH
06A0 555
06A0 556 ; Module MTH$SQRT
06A0 557
06A0 558          VCALL  MTH$SQRT
06A8 559          VJSB  MTH$SQRT_R3
06B0 560
06B0 561 ; Module MTH$SQRT2
```

```
0680 562
0680 563          VJSB    MTH$SORT_R2
0688 564
0688 565 : Module MTH$STAN
0688 566
0688 567          VCALL    MTH$STAN
06C0 568          VCALL    MTH$STAND
06C8 569          VJSB    MTH$STAND_R4
06D0 570          VJSB    MTH$STAND_R5
06D8 571          VJSB    MTH$STAN_R4
06E0 572          VJSB    MTH$STAN_R5
06E8 573
06E8 574 : Module MTH$STANH
06E8 575
06E8 576          VCALL    MTH$STANH
06F0 577
06F0 578 : Module OTS$DIVC
06F0 579
06F0 580          VCALL    OTS$DIVC
06F8 581
06F8 582 : Module OTS$DIVCD
06F8 583
06F8 584          VCALL    OTS$DIVCD_R3
0700 585
0700 586 : Module OTS$DIVCG
0700 587
0700 588          VCALL    OTS$DIVCG_R3
0708 589
0708 590 : Module OTS$MULCD
0708 591
0708 592          VCALL    OTS$MULCD_R3
0710 593
0710 594 : Module OTS$MULCG
0710 595
0710 596          VCALL    OTS$MULCG_R3
0718 597
0718 598 : Module OTS$POWCC
0718 599
0718 600          VCALL    OTS$POWCC
0720 601
0720 602 : Module OTS$POWCD CD
0720 603
0720 604          VCALL    OTS$POWCD CD_R3
0728 605
0728 606 : Module OTS$POWCDJ
0728 607
0728 608          VCALL    OTS$POWCDJ_R3
0730 609
0730 610 : Module OTS$POWCGCG
0730 611
0730 612          VCALL    OTS$POWCGCG_R3
0738 613
0738 614 : Module OTS$POWCGJ
0738 615
0738 616          VCALL    OTS$POWCGJ_R3
0740 617
0740 618 : Module OTS$POWCJ
```

```
0740 619
0740 620          VCALL  OTS$POWCJ
0748 621
0748 622 ; Module OTS$POWDD
0748 623
0748 624          VCALL  OTS$POWDD
0750 625          VCALL  OTS$POWDR
0758 626          VCALL  OTS$POWRD
0760 627
0760 628 ; Module OTS$POWDJ
0760 629
0760 630          VCALL  OTS$POWDJ
0768 631
0768 632 ; Module OTS$POWDLU
0768 633
0768 634          VCALL  OTS$POWDLU
0770 635
0770 636 ; Module OTS$POWGG
0770 637
0770 638          VCALL  OTS$POWGG
0778 639
0778 640 ; Module OTS$POWGJ
0778 641
0778 642          VCALL  OTS$POWGJ
0780 643
0780 644 ; Module OTS$POWGLU
0780 645
0780 646          VCALL  OTS$POWGLU
0788 647
0788 648 ; Module OTS$POWHH
0788 649
0788 650          VCALL  OTS$POWHH_R3
0790 651
0790 652 ; Module OTS$POWHJ
0790 653
0790 654          VCALL  OTS$POWHJ_R3
0798 655
0798 656 ; Module OTS$POWHLU
0798 657
0798 658          VCALL  OTS$POWHLU_R3
07A0 659
07A0 660 ; Module OTS$POWII
07A0 661
07A0 662          VCALL  OTS$POWII
07A8 663
07A8 664 ; Module OTS$POWJJ
07A8 665
07A8 666          VCALL  OTS$POWJJ
07B0 667
07B0 668 ; Module OTS$POWLULU
07B0 669
07B0 670          VCALL  OTS$POWLULU
07B8 671
07B8 672 ; Module OTS$POWRJ
07B8 673
07B8 674          VCALL  OTS$POWRJ
07C0 675
```



```
07C0 676 ; Module OTSS$POURLU
07C0 677
07C0 678          VCALL  OTSS$POURLU
07C8 679
07C8 680 ; Module OTSS$POWRR
07C8 681
07C8 682          VCALL  OTSS$POWRR
07D0 683
07D0 684
07D0 685 :+
07D0 686 : End of initial MTHRTL vector. All subsequent additions must be made
07D0 687 : after this point.
07D0 688 :-
07D0 689
07D0 690 :+
07D0 691 : All remaining MTH$ entry points which were previously non-shared, are
07D0 692 : now shared for V3B.
07D0 693 :-
07D0 694
07D0 695 ; Module MTH$ABS
07D0 696
07D0 697          VCALL  MTH$ABS
07D8 698          VCALL  MTH$DABS
07E0 699          VCALL  MTH$GABS
07E8 700          VCALL  MTH$HABS
07F0 701          VCALL  MTH$IIABS
07F8 702          VCALL  MTH$JIABS
0800 703
0800 704 ; Module MTH$BITOPS
0800 705
0800 706          VCALL  MTH$IIAND
0808 707          VCALL  MTH$IIOR
0810 708          VCALL  MTH$IIOR
0818 709          VCALL  MTH$IISHT
0820 710          VCALL  MTH$INOT
0828 711          VCALL  MTH$JAND
0830 712          VCALL  MTH$JIEOR
0838 713          VCALL  MTH$JIOR
0840 714          VCALL  MTH$JISHT
0848 715          VCALL  MTH$JNOT
0850 716
0850 717 ; Module MTH$CONJG
0850 718
0850 719          VCALL  MTH$CONJG
0858 720
0858 721 ; Module MTH$CONVER
0858 722
0858 723          VCALL  MTH$AIMAG
0860 724          VCALL  MTH$CMPLX
0868 725          VCALL  MTH$DBLE
0870 726          VCALL  MTH$DCMPLX
0878 727          VCALL  MTH$DFLOTI
0880 728          VCALL  MTH$DFLOTJ
0888 729          VCALL  MTH$DIMAG
0890 730          VCALL  MTH$DREAL
0898 731          VCALL  MTH$FLOATI
08A0 732          VCALL  MTH$FLOATJ
```

```
08A8 733      VCALL MTH$GCMPLX
08B0 734      VCALL MTH$GDBLE
08B8 735      VCALL MTH$GFLOTI
08C0 736      VCALL MTH$GFLOTJ
08C8 737      VCALL MTH$GIMAG
08D0 738      VCALL MTH$GREAL
08D8 739      VCALL MTH$IIDINT
08E0 740      ALIAS MTH$IIINT
08E0 741      VCALL MTH$IIFIX
08E8 742      VCALL MTH$IIGINT
08F0 743      VCALL MTH$IIHINT
08F8 744      VCALL MTH$JIDINT
0900 745      ALIAS MTH$JINT
0900 746      VCALL MTH$JIFIX
0908 747      VCALL MTH$JIGINT
0910 748      VCALL MTH$JIHINT
0918 749      VCALL MTH$REAL
0920 750      VCALL MTH$SNGL
0928 751      VCALL MTH$SNGLG
0930 752
0930 753      : Module MTH$CVTDG
0930 754
0930 755      VCALL MTH$CVT_DA_GA
0938 756      VCALL MTH$CVT_D_G
0940 757      VCALL MTH$CVT_GA_DA
0948 758      VCALL MTH$CVT_G_D
0950 759
0950 760      : Module MTH$DCONJG
0950 761
0950 762      VCALL MTH$DCONJG
0958 763
0958 764      : Module MTH$DFLOOR
0958 765
0958 766      VCALL MTH$DFLOOR
0960 767      VJSB MTH$DFLOOR_R3
0968 768
0968 769      : Module MTH$DIM
0968 770
0968 771      VCALL MTH$DDIM
0970 772      VCALL MTH$DIM
0978 773      VCALL MTH$GDIM
0980 774      VCALL MTH$HDIM
0988 775      VCALL MTH$IIDIM
0990 776      VCALL MTH$JIDIM
0998 777
0998 778      : Module MTH$DMAX1
0998 779
0998 780      VCALL MTH$DMAX1
09A0 781
09A0 782      : Module MTH$DMIN1
09A0 783
09A0 784      VCALL MTH$DMIN1
09A8 785
09A8 786      : Module MTH$DPROD
09A8 787
09A8 788      VCALL MTH$DPROD
09B0 789
```

```
0980 790 : Module MTH$DSIGN
0980 791
0980 792      VCALL  MTH$DSIGN
0988 793
0988 794 : Module MTH$FLOOR
0988 795
0988 796      VCALL  MTH$FLOOR
09C0 797      VJSB  MTH$FLOOR_R1
09C8 798
09C8 799 : Module MTH$GCONJG
09C8 800
09C8 801      VCALL  MTH$GCONJG
09D0 802
09D0 803 : Module MTH$GFLOOR
09D0 804
09D0 805      VCALL  MTH$GFLOOR
09D8 806      VJSB  MTH$GFLOOR_R3
09E0 807
09E0 808 : Module MTH$GMAX1
09E0 809
09E0 810      VCALL  MTH$GMAX1
09E8 811
09E8 812 : Module MTH$GMIN1
09E8 813
09E8 814      VCALL  MTH$GMIN1
09F0 815
09F0 816 : Module MTH$GSIGN
09F0 817
09F0 818      VCALL  MTH$GSIGN
09F8 819
09F8 820 : Module MTH$HFLOOR
09F8 821
09F8 822      VCALL  MTH$HFLOOR
0A00 823      VJSB  MTH$HFLOOR_R7
0A08 824
0A08 825 : Module MTH$HMAX1
0A08 826
0A08 827      VCALL  MTH$HMAX1
0A10 828
0A10 829 : Module MTH$HMIN1
0A10 830
0A10 831      VCALL  MTH$HMIN1
0A18 832
0A18 833 : Module MTH$HSIGN
0A18 834
0A18 835      VCALL  MTH$HSIGN
0A20 836
0A20 837 : Module MTH$IIDNNT
0A20 838
0A20 839      VCALL  MTH$IIDNNT
0A28 840
0A28 841 : Module MTH$IIGNNT
0A28 842
0A28 843      VCALL  MTH$IIGNNT
0A30 844
0A30 845 : Module MTH$IIHNNT
0A30 846
```

```
0A30 847          VCALL  MTH$IIHNNT
0A38 848
0A38 849 ; Module MTH$IISIGN
0A38 850
0A38 851          VCALL  MTH$IISIGN
0A40 852
0A40 853 ; Module MTH$IMAX0
0A40 854
0A40 855          VCALL  MTH$AIMAX0
0A48 856          VCALL  MTH$IMAX0
0A50 857
0A50 858 ; Module MTH$IMINO
0A50 859
0A50 860          VCALL  MTH$AIMINO
0A58 861          VCALL  MTH$IMINO
0A60 862
0A60 863 ; Module MTH$ININT
0A60 864
0A60 865          VCALL  MTH$ININT
0A68 866
0A68 867 ; Module MTH$JIDNNT
0A68 868
0A68 869          VCALL  MTH$JIDNNT
0A70 870
0A70 871 ; Module MTH$JIGNNT
0A70 872
0A70 873          VCALL  MTH$JIGNNT
0A78 874
0A78 875 ; Module MTH$JIHNNT
0A78 876
0A78 877          VCALL  MTH$JIHNNT
0A80 878
0A80 879 ; Module MTH$JISIGN
0A80 880
0A80 881          VCALL  MTH$JISIGN
0A88 882
0A88 883 ; Module MTH$JMAX0
0A88 884
0A88 885          VCALL  MTH$AJMAX0
0A90 886          VCALL  MTH$JMAX0
0A98 887
0A98 888 ; Module MTH$JMINO
0A98 889
0A98 890          VCALL  MTH$AJMINO
0AA0 891          VCALL  MTH$JMINO
0AA8 892
0AA8 893 ; Module MTH$JNINT
0AA8 894
0AA8 895          VCALL  MTH$JNINT
0AB0 896
0AB0 897 ; Module MTH$MAX1
0AB0 898
0AB0 899          VCALL  MTH$AMAX1
0AB8 900          VCALL  MTH$IMAX1
0AC0 901          VCALL  MTH$JMAX1
0AC8 902
0AC8 903 ; Module MTH$MIN1
```



MTH\$VECTOR  
1-002

- Entry vector for MTHRTL.EXE  
MTHRTL Vector

N 4

16-SEP-1984 01:00:45  
6-SEP-1984 11:27:25

VAX/VMS Macro V04-00  
[MTHRTL.SRC]MTHVECTOR.MAR;1

Page 18  
(3)

```
OAC8 904
OAC8 905          VCALL MTH$AMIN1
OADO 906          VCALL MTH$IMIN1
OAD8  907          VCALL MTH$JMIN1
OAE0 908
OAE0 909 : Module MTH$MOD
OAE0 910
OAE0 911          VCALL MTH$IMOD
OAE8 912          VCALL MTH$JMOD
OAF0 913
OAF0 914 : Module MTH$SGN
OAF0 915
OAF0 916          VCALL MTH$SGN
OAF8 917          VJSB  MTH$SGN_R1
OB00 918
OB00 919
OB00 920          .END
```

: End of module MTH\$VECTOR

MTH\$VECTOR  
Symbol table

- Entry vector for MTHRTL.EXE

B 5

16-SEP-1984 01:00:45  
6-SEP-1984 11:27:25VAX/VMS Macro V04-00  
[MTHRTL.SRC]MTHVECTOR.MAR;1Page 19  
(3)

MTH\$ABS	*****	X	01	MTH\$CSIN	*****	X	01	MTH\$DSINCOS	*****	X	01
MTH\$ACOS	*****	X	01	MTH\$CSQRT	*****	X	01	MTH\$DSINCOSD	*****	X	01
MTH\$ACOSD	*****	X	01	MTH\$CVT_DA GA	*****	X	01	MTH\$DSINCOSD_R7	*****	X	01
MTH\$ACOSD_R4	*****	X	01	MTH\$CVT_D G	*****	X	01	MTH\$DSINCOS_R7	*****	X	01
MTH\$ACOS_R4	*****	X	01	MTH\$CVT_GA DA	*****	X	01	MTH\$DSIND	*****	X	01
MTH\$ACOS_R5	*****	X	01	MTH\$CVT_G D	*****	X	01	MTH\$DSIND_R7	*****	X	01
MTH\$AIMAG	*****	X	01	MTH\$DABS	*****	X	01	MTH\$DSINH	*****	X	01
MTH\$AIMAX0	*****	X	01	MTH\$DACOS	*****	X	01	MTH\$DSIN_R7	*****	X	01
MTH\$AIMINO	*****	X	01	MTH\$DACOSD	*****	X	01	MTH\$DSQRT	*****	X	01
MTH\$AINT	*****	X	01	MTH\$DACOSD_R7	*****	X	01	MTH\$DSQRT_R5	*****	X	01
MTH\$AINT_R2	*****	X	01	MTH\$DACOS_R7	*****	X	01	MTH\$DTAN	*****	X	01
MTH\$AJMAX0	*****	X	01	MTH\$DACOS_R9	*****	X	01	MTH\$DTAND	*****	X	01
MTH\$AJMIN0	*****	X	01	MTH\$DASIN	*****	X	01	MTH\$DTAND_R7	*****	X	01
MTH\$ALOG	*****	X	01	MTH\$DASIND	*****	X	01	MTH\$DTANH	*****	X	01
MTH\$ALOG10	*****	X	01	MTH\$DASIND_R7	*****	X	01	MTH\$DTAN_R7	*****	X	01
MTH\$ALOG10_R5	*****	X	01	MTH\$DASIN_R7	*****	X	01	MTH\$EXP	*****	X	01
MTH\$ALOG2	*****	X	01	MTH\$DASIN_R9	*****	X	01	MTH\$EXP_R4	*****	X	01
MTH\$ALOG_R5	*****	X	01	MTH\$DATAN	*****	X	01	MTH\$FLOATI	*****	X	01
MTH\$AMAXT	*****	X	01	MTH\$DATAN2	*****	X	01	MTH\$FLOATJ	*****	X	01
MTH\$AMIN1	*****	X	01	MTH\$DATAND	*****	X	01	MTH\$FLOOR	*****	X	01
MTH\$AMOD	*****	X	01	MTH\$DATAND2	*****	X	01	MTH\$FLOOR_R1	*****	X	01
MTH\$ANINT	*****	X	01	MTH\$DATAND_R7	*****	X	01	MTH\$GABS	*****	X	01
MTH\$ASIN	*****	X	01	MTH\$DATANH	*****	X	01	MTH\$GACOS	*****	X	01
MTH\$ASIND	*****	X	01	MTH\$DATAN_R7	*****	X	01	MTH\$GACOSD	*****	X	01
MTH\$ASIND_R4	*****	X	01	MTH\$DBLE	*****	X	01	MTH\$GACOSD_R7	*****	X	01
MTH\$ASIN_R4	*****	X	01	MTH\$DCMLX	*****	X	01	MTH\$GACOS_R7	*****	X	01
MTH\$ASIN_R5	*****	X	01	MTH\$DCONJG	*****	X	01	MTH\$GACOS_R9	*****	X	01
MTH\$ATAN	*****	X	01	MTH\$DCOS	*****	X	01	MTH\$GASIN	*****	X	01
MTH\$ATAN2	*****	X	01	MTH\$DCOSD	*****	X	01	MTH\$GASIND	*****	X	01
MTH\$ATAND	*****	X	01	MTH\$DCOSD_R7	*****	X	01	MTH\$GASIND_R7	*****	X	01
MTH\$ATAND2	*****	X	01	MTH\$DCOSH	*****	X	01	MTH\$GASIN_R7	*****	X	01
MTH\$ATAND_R4	*****	X	01	MTH\$DCOS_R7	*****	X	01	MTH\$GASIN_R9	*****	X	01
MTH\$ATANH	*****	X	01	MTH\$DDIM	*****	X	01	MTH\$GATAN	*****	X	01
MTH\$ATAN_R4	*****	X	01	MTH\$DEXP	*****	X	01	MTH\$GATAN2	*****	X	01
MTH\$CABS	*****	X	01	MTH\$DEXP_R6	*****	X	01	MTH\$GATAND	*****	X	01
MTH\$CCOS	*****	X	01	MTH\$DEXP_R7	*****	X	01	MTH\$GATAND2	*****	X	01
MTH\$CDABS	*****	X	01	MTH\$DFLOOR	*****	X	01	MTH\$GATAND_R7	*****	X	01
MTH\$CDCOS	*****	X	01	MTH\$DFLOOR_R3	*****	X	01	MTH\$GATANH	*****	X	01
MTH\$CDEXP	*****	X	01	MTH\$DFLOTJ	*****	X	01	MTH\$GATAN_R7	*****	X	01
MTH\$CDLOG	*****	X	01	MTH\$DIM	*****	X	01	MTH\$GCMLX	*****	X	01
MTH\$CDSIN	*****	X	01	MTH\$DIMAG	*****	X	01	MTH\$GCONJG	*****	X	01
MTH\$CDSQRT	*****	X	01	MTH\$DINT	*****	X	01	MTH\$GCOS	*****	X	01
MTH\$CEXP	*****	X	01	MTH\$DINT_R4	*****	X	01	MTH\$GCOSD	*****	X	01
MTH\$CGABS	*****	X	01	MTH\$DLOG	*****	X	01	MTH\$GCOSD_R7	*****	X	01
MTH\$CGCOS	*****	X	01	MTH\$DLOG10	*****	X	01	MTH\$GCOSH	*****	X	01
MTH\$CGEXP	*****	X	01	MTH\$DLOG10_R8	*****	X	01	MTH\$GCOS_R7	*****	X	01
MTH\$CGLOG	*****	X	01	MTH\$DLOG2	*****	X	01	MTH\$GDBLE	*****	X	01
MTH\$CGSIN	*****	X	01	MTH\$DLOG_R8	*****	X	01	MTH\$GDIM	*****	X	01
MTH\$CGSQRT	*****	X	01	MTH\$DLOG_R8	*****	X	01	MTH\$GEXP	*****	X	01
MTH\$CLOG	*****	X	01	MTH\$DMAXT	*****	X	01	MTH\$GEXP_R6	*****	X	01
MTH\$CMPLX	*****	X	01	MTH\$DMIN1	*****	X	01	MTH\$GEXP_R7	*****	X	01
MTH\$CONJG	*****	X	01	MTH\$DMOD	*****	X	01	MTH\$GFLOOR	*****	X	01
MTH\$COS	*****	X	01	MTH\$DNINT	*****	X	01	MTH\$GFLOOR_R3	*****	X	01
MTH\$COSD	*****	X	01	MTH\$DPROD	*****	X	01	MTH\$GFLOTJ	*****	X	01
MTH\$COSD_R4	*****	X	01	MTH\$DREAL	*****	X	01	MTH\$GFLOTJ	*****	X	01
MTH\$COSH	*****	X	01	MTH\$DSIGN	*****	X	01	MTH\$GIMAG	*****	X	01
MTH\$COS_R4	*****	X	01	MTH\$DSIN	*****	X	01	MTH\$GINT	*****	X	01



MTH\$VECTOR  
Symbol table

- Entry vector for MTHRTL.EXE

C 5

16-SEP-1984 01:00:45  
6-SEP-1984 11:27:25VAX/VMS Macro V04-00  
[MTHRTL.SRC]MTHVECTOR.MAR;1Page 20  
(3)

MTH\$GINT_R4	*****	X	01	MTH\$HLOG	*****	X	01	MTH\$JIGNNT	*****	X	01
MTH\$GLOG	*****	X	01	MTH\$HLOG10	*****	X	01	MTH\$JIHINT	*****	X	01
MTH\$GLOG10	*****	X	01	MTH\$HLOG10_R8	*****	X	01	MTH\$JIHNNT	*****	X	01
MTH\$GLOG10_R8	*****	X	01	MTH\$HLOG2	*****	X	01	MTH\$JIOR	*****	X	01
MTH\$GLOG2	*****	X	01	MTH\$HLOG_R8	*****	X	01	MTH\$JISHFT	*****	X	01
MTH\$GLOG_R8	*****	X	01	MTH\$HMAXT	*****	X	01	MTH\$JISIGN	*****	X	01
MTH\$GMAXT	*****	X	01	MTH\$HMIN1	*****	X	01	MTH\$JMAX0	*****	X	01
MTH\$GMIN1	*****	X	01	MTH\$HMOD	*****	X	01	MTH\$JMAX1	*****	X	01
MTH\$GMOD	*****	X	01	MTH\$HNINT	*****	X	01	MTH\$JMIN0	*****	X	01
MTH\$GNINT	*****	X	01	MTH\$HSIGN	*****	X	01	MTH\$JMIN1	*****	X	01
MTH\$GPROD	*****	X	01	MTH\$HSIN	*****	X	01	MTH\$JMOD	*****	X	01
MTH\$GREAL	*****	X	01	MTH\$HSINCOS	*****	X	01	MTH\$JNINT	*****	X	01
MTH\$GSIGN	*****	X	01	MTH\$HSINCOSD	*****	X	01	MTH\$JNOT	*****	X	01
MTH\$GSIN	*****	X	01	MTH\$HSINCOSD_R7	*****	X	01	MTH\$RANDOM	*****	X	01
MTH\$GSINCOS	*****	X	01	MTH\$HSINCOS_R7	*****	X	01	MTH\$REAL	*****	X	01
MTH\$GSINCOSD	*****	X	01	MTH\$HSIND	*****	X	01	MTH\$SGN	*****	X	01
MTH\$GSINCOSD_R7	*****	X	01	MTH\$HSIND_R5	*****	X	01	MTH\$SGN_R1	*****	X	01
MTH\$GSINCOS_R7	*****	X	01	MTH\$HSINH	*****	X	01	MTH\$SIGN	*****	X	01
MTH\$GSIND	*****	X	01	MTH\$HSIN_R5	*****	X	01	MTH\$SIN	*****	X	01
MTH\$GSIND_R7	*****	X	01	MTH\$HSQRT	*****	X	01	MTH\$SINCOS	*****	X	01
MTH\$GSINH	*****	X	01	MTH\$HSQRT_R8	*****	X	01	MTH\$SINCOSD	*****	X	01
MTH\$GSIN_R7	*****	X	01	MTH\$HTAN	*****	X	01	MTH\$SINCOSD_R5	*****	X	01
MTH\$GSQRT	*****	X	01	MTH\$HTAND	*****	X	01	MTH\$SINCOS_R5	*****	X	01
MTH\$GSQRT_R5	*****	X	01	MTH\$HTAND_R5	*****	X	01	MTH\$SIND	*****	X	01
MTH\$GTAN	*****	X	01	MTH\$HTAND_R7	*****	X	01	MTH\$SIND_R4	*****	X	01
MTH\$GTAND	*****	X	01	MTH\$HTANH	*****	X	01	MTH\$SINH	*****	X	01
MTH\$GTAND_R7	*****	X	01	MTH\$HTAN_R5	*****	X	01	MTH\$SIN_R4	*****	X	01
MTH\$GTANH	*****	X	01	MTH\$HTAN_R7	*****	X	01	MTH\$SNGC	*****	X	01
MTH\$GTAN_R7	*****	X	01	MTH\$IIABS	*****	X	01	MTH\$SNGLG	*****	X	01
MTH\$HABS	*****	X	01	MTH\$IIAND	*****	X	01	MTH\$SQRT	*****	X	01
MTH\$HACOS	*****	X	01	MTH\$IIDIM	*****	X	01	MTH\$SQRT_R2	*****	X	01
MTH\$HACOSD	*****	X	01	MTH\$IIDINT	*****	X	01	MTH\$SQRT_R3	*****	X	01
MTH\$HACOSD_R8	*****	X	01	MTH\$IIDNNT	*****	X	01	MTH\$STAN	*****	X	01
MTH\$HACOS_R8	*****	X	01	MTH\$IIIEOR	*****	X	01	MTH\$STAND	*****	X	01
MTH\$HASIN	*****	X	01	MTH\$IIIFIX	*****	X	01	MTH\$STAND_R4	*****	X	01
MTH\$HASIND	*****	X	01	MTH\$IIIGINT	*****	X	01	MTH\$STAND_R5	*****	X	01
MTH\$HASIND_R8	*****	X	01	MTH\$IIIGNNT	*****	X	01	MTH\$STANH	*****	X	01
MTH\$HASIN_R8	*****	X	01	MTH\$IIHINT	*****	X	01	MTH\$STAN_R4	*****	X	01
MTH\$HATAN	*****	X	01	MTH\$IIHNNT	*****	X	01	MTH\$STAN_R5	*****	X	01
MTH\$HATAN2	*****	X	01	MTH\$IIOR	*****	X	01	OTSS\$DIVC	*****	X	01
MTH\$HATAND	*****	X	01	MTH\$IIISHFT	*****	X	01	OTSS\$DIVCD_R3	*****	X	01
MTH\$HATAND2	*****	X	01	MTH\$IISIGN	*****	X	01	OTSS\$DIVCG_R3	*****	X	01
MTH\$HATAND_R8	*****	X	01	MTH\$IMAX0	*****	X	01	OTSS\$MULCD_R3	*****	X	01
MTH\$HATANH	*****	X	01	MTH\$IMAX1	*****	X	01	OTSS\$MULCG_R3	*****	X	01
MTH\$HATAN_R8	*****	X	01	MTH\$IMINO	*****	X	01	OTSS\$POWCC	*****	X	01
MTH\$HCOS	*****	X	01	MTH\$IMIN1	*****	X	01	OTSS\$POWCCD_R3	*****	X	01
MTH\$HCOSD	*****	X	01	MTH\$IMOD	*****	X	01	OTSS\$POWCDJ_R3	*****	X	01
MTH\$HCOSD_R5	*****	X	01	MTH\$ININT	*****	X	01	OTSS\$POWCGC_R3	*****	X	01
MTH\$HCOSH	*****	X	01	MTH\$INOT	*****	X	01	OTSS\$POWCGJ_R3	*****	X	01
MTH\$HCOS_R5	*****	X	01	MTH\$JIABS	*****	X	01	OTSS\$POWCJ	*****	X	01
MTH\$HDIM	*****	X	01	MTH\$JIAND	*****	X	01	OTSS\$POWDD	*****	X	01
MTH\$HEXP	*****	X	01	MTH\$JIDIM	*****	X	01	OTSS\$POWDJ	*****	X	01
MTH\$HEXP_R6	*****	X	01	MTH\$JIDINT	*****	X	01	OTSS\$POWDLU	*****	X	01
MTH\$HFLOOR	*****	X	01	MTH\$JIDNNT	*****	X	01	OTSS\$POWDR	*****	X	01
MTH\$HFLOOR_R7	*****	X	01	MTH\$JIEOR	*****	X	01	OTSS\$POWGG	*****	X	01
MTH\$HINT	*****	X	01	MTH\$JIFIX	*****	X	01	OTSS\$POWGJ	*****	X	01
MTH\$HINT_R8	*****	X	01	MTH\$JIGINT	*****	X	01	OTSS\$POWGLU	*****	X	01

OTS  
1-0

MTH\$VECTOR  
Symbol table

- Entry vector for MTHRTL.EXE

D 5

16-SEP-1984 01:00:45  
6-SEP-1984 11:27:25

VAX/VMS Macro V04-00  
[MTHRTL.SRC]MTHVECTOR.MAR;1

Page 21  
(3)

OTSS\$POWHH_R3	*****	X	01
OTSS\$POWHJ_R3	*****	X	01
OTSS\$POWHLO_R3	*****	X	01
OTSS\$POWHI	*****	X	01
OTSS\$POWHJ	*****	X	01
OTSS\$POWLULU	*****	X	01
OTSS\$POWRD	*****	X	01
OTSS\$POWRJ	*****	X	01
OTSS\$POWRLU	*****	X	01
OTSS\$POWRR	*****	X	01

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes														
ABS	00000000 ( 0.)	00 ( 0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE				
\$MTH\$VECTOR	00000B00 ( 2816.)	01 ( 1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG				

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.12	00:00:00.63
Command processing	158	00:00:00.45	00:00:03.07
Pass 1	175	00:00:05.82	00:00:14.08
Symbol table sort	0	00:00:00.49	00:00:01.04
Pass 2	175	00:00:02.48	00:00:07.48
Symbol table output	31	00:00:00.19	00:00:00.25
Psect synopsis output	1	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	578	00:00:09.57	00:00:26.56

The working set limit was 1200 pages.  
33785 bytes (66 pages) of virtual memory were used to buffer the intermediate code.  
There were 20 pages of symbol table space allocated to hold 352 non-local and 0 local symbols.  
920 source lines were read in Pass 1, producing 53 object records in Pass 2.  
3 pages of virtual memory were used to define 3 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/LIS=LIS\$:MTHVECTOR/OBJ=OBJ\$:MTHVECTOR MSRC\$:MTHVECTOR/UPDATE=(ENH\$:MTHVECTOR)



0264 AH-BT13A-SE  
VAX/VMS V4.0

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